

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
4 August 2005 (04.08.2005)

PCT

(10) International Publication Number  
**WO 2005/070616 A1**

(51) International Patent Classification<sup>7</sup>: **B23Q 5/04,**  
B25F 5/00, F16D 1/12, 3/10

Lorenzo [IT/AU]; 43A Charles Street, Putney, New South  
Wales 2112 (AU).

(21) International Application Number:  
PCT/AU2005/000075

(74) Agent: **FREEHILLS PATENT & TRADE MARK AT-  
TORNEYS**; Level 32 MLC Centre, Martin Place, SYD-  
NEY, New South Wales 2000 (AU).

(22) International Filing Date: 24 January 2005 (24.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
2004900326 23 January 2004 (23.01.2004) AU

(81) Designated States (*unless otherwise indicated, for every  
kind of national protection available*): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(71) Applicant (*for all designated States except US*): CON-  
CEPT TO REALITY PTY LTD [AU/AU]; 43A Charles  
Street, Putney, NSW 2112 (AU).

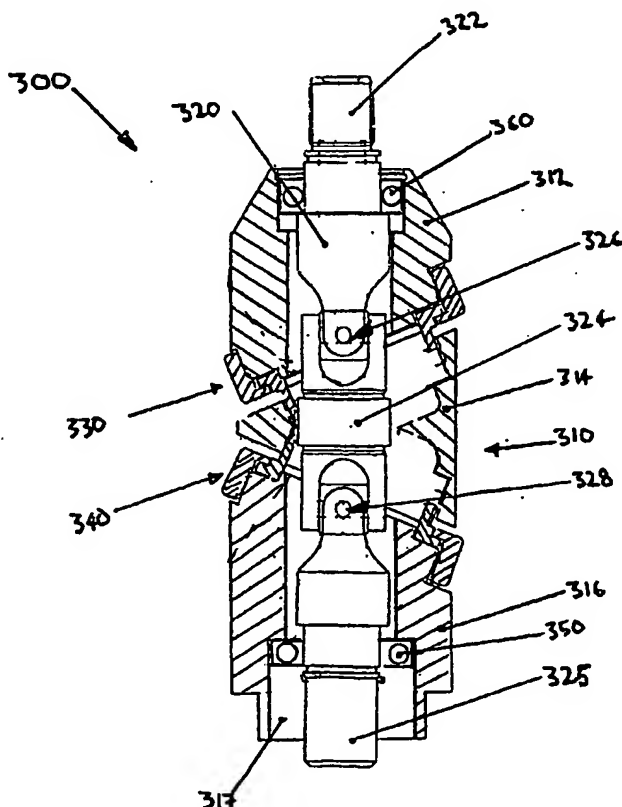
(84) Designated States (*unless otherwise indicated, for every  
kind of regional protection available*): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

(72) Inventor; and

(75) Inventor/Applicant (*for US only*): BERTANI, Romolo,

[Continued on next page]

(54) Title: MULTIDIRECTIONAL TRANSMISSION



(57) Abstract: A transmission (300) for a hand-tool  
comprising a drive shaft (325) having a first axis of  
rotation, a driven shaft (322) having a second axis of  
rotation and being rotationally coupled to said drive  
shaft via at least one universal joint (326, 328). A  
housing (314) is adapted to receive said drive shaft  
and said driven shaft and is further adapted to allow  
the axis of rotation of the driven shaft to be adjustably  
varied relative to the axis of rotation of the drive shaft.

WO 2005/070616 A1



ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

— *with international search report*